Andrew Freistein 10/707,402

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS	5	MAY 11	KOREAPAT updates resume
NEWS	6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS	7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS	8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS	9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS	10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS	11	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS	12	JUl 11	CHEMSAFE reloaded and enhanced
NEWS	13	JUl 14	FSTA enhanced with Japanese patents
NEWS	14	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS	15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS	16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS	17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS	18	SEP 11	CA/CAplus enhanced with more pre-1907 records

NEWS EXPRESS	JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:59:53 ON 19 SEP 2006

=> file reg
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 0.21 | 0.21

FILE 'REGISTRY' ENTERED AT 10:00:02 ON 19 SEP 2006
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 SEP 2006 HIGHEST RN 907539-37-1
DICTIONARY FILE UPDATES: 18 SEP 2006 HIGHEST RN 907539-37-1

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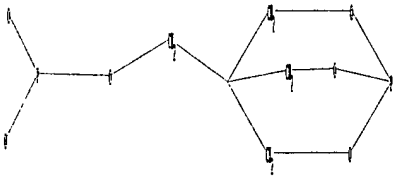
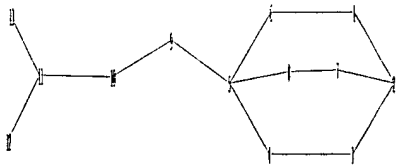
http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10707402\IV.str



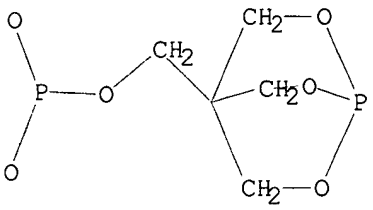


chain nodes :
9 10 11 12 13
ring nodes :
1 2 3 4 5 6 7 8
chain bonds :
5-9 9-10 10-11 11-12 11-13
ring bonds :
1-2 1-6 2-3 2-7 3-4 4-5 5-6 5-8 7-8
exact/norm bonds :
1-2 1-6 2-3 2-7 3-4 4-5 5-6 5-8 7-8 10-11 11-12 11-13
exact bonds :
5-9 9-10

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
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SAMPLE SCREEN SEARCH COMPLETED - 18 TO ITERATE

100.0% PROCESSED 18 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 106 TO 614
PROJECTED ANSWERS: 2 TO 124

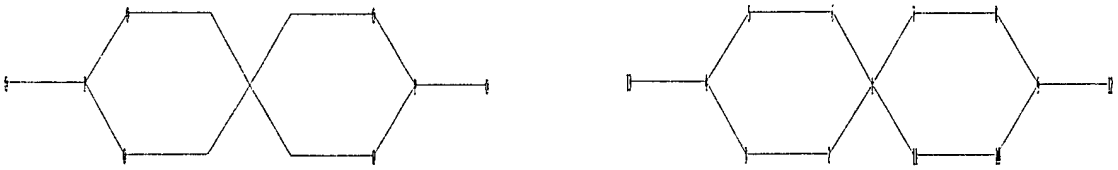
L2 2 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 10:00:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 317 TO ITERATE

100.0% PROCESSED 317 ITERATIONS 41 ANSWERS
SEARCH TIME: 00.00.01

L3 41 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10707402\III.str



chain nodes :
12 13
ring nodes :
1 2 3 4 5 6 7 8 9 10 11
chain bonds :

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4-13 9-12
ring bonds :
1-2 1-6 1-7 1-11 2-3 3-4 4-5 5-6 7-8 8-9 9-10 10-11
exact/norm bonds :
1-2 1-6 1-7 1-11 2-3 3-4 4-5 4-13 5-6 7-8 8-9 9-10 9-12 10-11

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS

L4   STRUCTURE UPLOADED

=> s l4
SAMPLE SEARCH INITIATED 10:00:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   54 TO ITERATE

100.0% PROCESSED   54 ITERATIONS   29 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 640 TO   1520
PROJECTED ANSWERS: 257 TO   903

L5   29 SEA SSS SAM L4

=> s l4 full
FULL SEARCH INITIATED 10:01:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   968 TO ITERATE

100.0% PROCESSED   968 ITERATIONS   480 ANSWERS
SEARCH TIME: 00.00.01

L6   480 SEA SSS FUL L4

=>
Uploading C:\Program Files\Stnexp\Queries\10707402\I.str

chain nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
1-2 2-3 3-4 3-6 3-8 4-5 6-7 8-9
exact/norm bonds :
1-2 4-5 6-7 8-9
exact bonds :
2-3 3-4 3-6 3-8

Match level :

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1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

L7 STRUCTURE UPLOADED

=> s l7
SAMPLE SEARCH INITIATED 10:01:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 7524 TO ITERATE

26.6% PROCESSED 2000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 145280 TO 155680
PROJECTED ANSWERS: 4089 TO 5993

L8 50 SEA SSS SAM L7

=> s l7 full
FULL SEARCH INITIATED 10:01:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 147461 TO ITERATE

100.0% PROCESSED 147461 ITERATIONS 5851 ANSWERS
SEARCH TIME: 00.00.01

L9 5851 SEA SSS FUL L7

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 500.82 501.03

FILE 'CAPLUS' ENTERED AT 10:01:36 ON 19 SEP 2006
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FILE COVERS 1907 - 19 Sep 2006 VOL 145 ISS 13
FILE LAST UPDATED: 18 Sep 2006 (20060918/ED)

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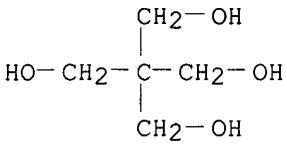
```
=> s l3 and l6 and l9
           50 L3
         2335 L6
        14457 L9
L10          4 L3 AND L6 AND L9

=> d ibib abs hitstr 1-4

L10  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2001:763095  CAPLUS
DOCUMENT NUMBER:          135:319067
TITLE:                    Acid-methylol compound reaction products for flame
                          resistance
INVENTOR(S):              Kasowski, Robert Valentine; Kasowski, Maya Meltzer
PATENT ASSIGNEE(S):       USA
SOURCE:                   PCT Int. Appl., 38 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     WO 2001077217         A1    20011018    WO 2001-US9514          20010327
         W:  AT, AU, BG, CA, CH, CZ, DK, ES, FI, GE, HR, HU, ID, IL, IN, IS,
             JP, KP, KR, LU, MK, MX, NO, NZ, PL, PT, RO, RU, SE, SG, TR, UA,
             US, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, TR
     US 2004039085         A1    20040226    US 2002-275239          20021029
PRIORITY APPLN. INFO.:                     US 2000-195703P      P  20000407
                                           US 2000-196944P      P  20000413
                                           US 2000-213379P      P  20000623
                                           WO 2001-US9514       W  20010327
```

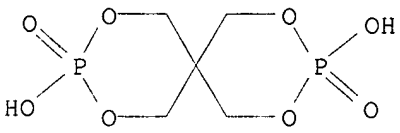
AB This invention relates to novel flame retardants (FR) resulting from the reaction of (a) or (b) with (c) where (a) is a compound containing at least one amine group and with at least one sixteenth of the amine mols. having at least one methylol bond, (b) is a phenol with at least one sixteenth of the phenol mols. having at least one methylol bond, and (c) is a mineral acid, organic acid, and organo-phosphorous acid, or a mixture thereof and optionally adding a polyhydric compound and/or optionally adding formaldehyde to the acid. These compns. are for use in general flame retardant applications such as coatings, adhesives, and articles made of polymeric materials. The FR mechanism by which these compds. generally perform as an FR agent is intumescence but the field of this invention is not restricted to that mechanism. Some of the compds. have substantial intumescence and others have very little intumescence but still are flame retardants. A typical fireproofing agent was manufactured by heating 37.9 g melamine 15-30 min at 90° with 10.4 g paraformaldehyde in 170 g water, and adding the resulting methylolmelamine solution to water containing pyrophosphoric acid in 3-5 min.

IT 115-77-5DP, Pentaerythritol, reaction products with methylolmelamine and polyphosphoric acids 947-28-4DP, Pentaerythritol diphosphate, reaction products with methylolated amines 89676-40-4DP, Dipentaerythritol triphosphate, reaction products with methylolated amines
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(acid-methylol compound reaction products for fireproofing agents for

polymers)
RN 115-77-5 CAPLUS
CN 1,3-Propanediol, 2,2-bis(hydroxymethyl)- (9CI) (CA INDEX NAME)

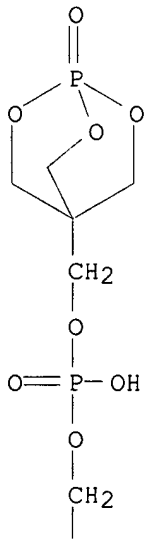


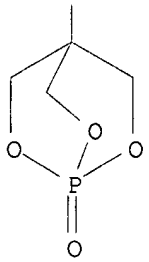
RN 947-28-4 CAPLUS
CN 2,4,8,10-Tetraoxa-3,9-diphosphaspiro[5.5]undecane, 3,9-dihydroxy-, 3,9-dioxide (9CI) (CA INDEX NAME)



RN 89676-40-4 CAPLUS
CN 2,6,7-Trioxa-1-phosphabicyclo[2.2.2]octane-4-methanol, hydrogen phosphate, 1,1'-dioxide (9CI) (CA INDEX NAME)

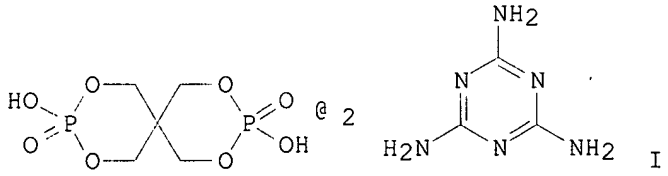
PAGE 1-A





REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:192898 CAPLUS
DOCUMENT NUMBER: 100:192898
TITLE: Fire retardancy of thermoplastic materials by intumescence
AUTHOR(S): Halpern, Yuval; Mott, Donna M.; Niswander, Ronald H.
CORPORATE SOURCE: Cent. Res. Lab., Borg-Warner Chem., Des Plaines, IL, 60018, USA
SOURCE: Industrial & Engineering Chemistry Product Research and Development (1984), 23(2), 233-8
CODEN: IEPRA6; ISSN: 0196-4321
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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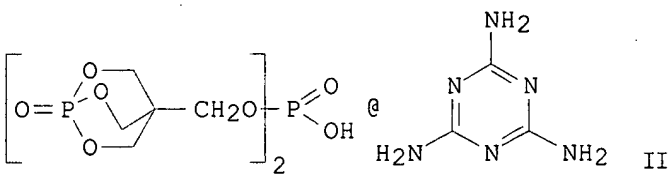


II

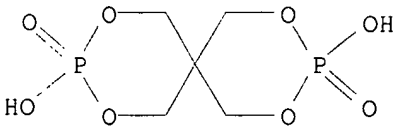
AB The intumescent, fire-retardant phosphate dimelamine salt (I) [70776-17-9] and melamine phosphate (II) [89676-41-5], prepared from pentaerythritol [115-77-5], melamine, and POCl3, are sufficiently thermally stable for processing in thermoplastics. They are effective fire retardants for polypropylene [9003-07-0] at concns. ≥20%. Both are more efficient than conventional halogen-Sb retardants, and have a less adverse effect on phys. properties.

IT 70776-17-9 89676-41-5
RL: USES (Uses)

(fire retardant, intumescent, for plastics)
RN 70776-17-9 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, compd. with 3,9-dihydroxy-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane 3,9-dioxide (2:1) (9CI) (CA INDEX NAME)

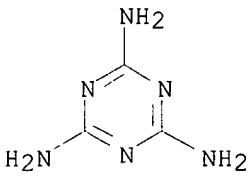
CM 1

CRN 947-28-4
CMF C5 H10 O8 P2



CM 2

CRN 108-78-1
CMF C3 H6 N6

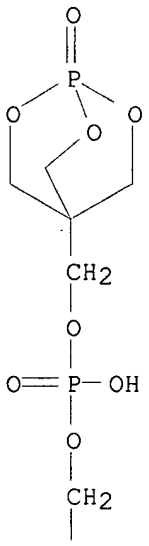


RN 89676-41-5 CAPLUS
CN 2,6,7-Trioxa-1-phosphabicyclo[2.2.2]octane-4-methanol, hydrogen phosphate, 1,1'-dioxide, compd. with 1,3,5-triazine-2,4,6-triamine (1:1) (9CI) (CA INDEX NAME)

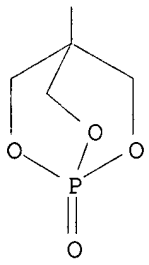
CM 1

CRN 89676-40-4
CMF C10 H17 O12 P3

PAGE 1-A

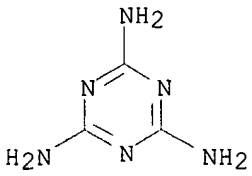


PAGE 2-A



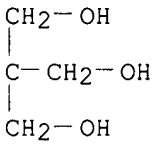
CM 2

CRN 108-78-1
CMF C3 H6 N6



IT 115-77-5, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with phosphoryl chloride)
RN 115-77-5 CAPLUS
CN 1,3-Propanediol, 2,2-bis(hydroxymethyl)- (9CI) (CA INDEX NAME)



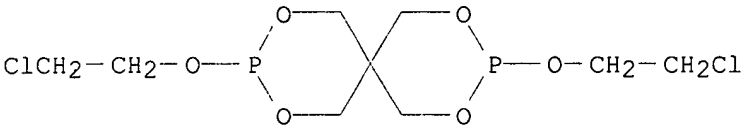
L10 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:561241 CAPLUS
DOCUMENT NUMBER: 85:161241
TITLE: Polycyclic phosphate esters
INVENTOR(S): Batorewicz, Wadim
PATENT ASSIGNEE(S): Uniroyal, Inc., USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3970726	A	19760720	US 1975-543289	19750123
ZA 7507361	A	19761124	ZA 1975-7361	19751124
AU 7587073	A1	19770602	AU 1975-87073	19751128
AU 499115	B2	19790405		
DE 2559371	A1	19760729	DE 1975-2559371	19751231
FR 2298553	A1	19760820	FR 1976-1585	19760121
FR 2298553	B1	19790309		
JP 51098224	A2	19760830	JP 1976-5527	19760122
PL 105884	P	19791130	PL 1976-186703	19760122
NL 7600743	A	19760727	NL 1976-743	19760123
US 4054543	A	19771018	US 1976-663173	19760302

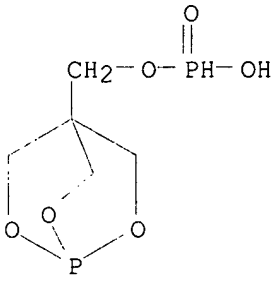
PRIORITY APPLN. INFO.: US 1975-543289 A 19750123

AB Fireproofing agents for polyurethane precursors to be foamed were made by reacting PCl3 with pentaerythritol [115-77-5] and either oxidizing-esterifying the product, or treating it with ethylene oxide [75-21-8] and chlorinating the product. Thus, the spiroadduct [3643-70-7] of pentaerythritol and PCl3 was oxidized and esterified with EtOH to give the Et ester. The latter was mixed with 1-(aminoethyl)piperazine-propylene oxide adduct, methylenebis(phenyl isocyanate), surfactants, curing agent, and blowing agents to give a polyurethane with O index 24.5, in contrast with the value of 20.6 when no fireproofing agents was used.

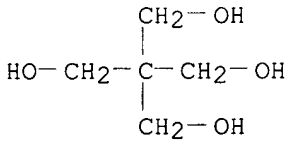
IT 60860-22-2P 60860-23-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification of)
RN 60860-22-2 CAPLUS
CN 2,4,8,10-Tetraoxa-3,9-diphosphaspiro[5.5]undecane, 3,9-bis(2-chloroethoxy)- (9CI) (CA INDEX NAME)



RN 60860-23-3 CAPLUS
CN Phosphonic acid, mono(2,6,7-trioxa-1-phosphabicyclo[2.2.2]oct-4-ylmethyl) ester (9CI) (CA INDEX NAME)



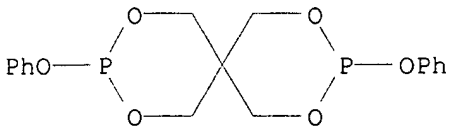
IT 115-77-5, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(with phosphorus trichloride)
RN 115-77-5 CAPLUS
CN 1,3-Propanediol, 2,2-bis(hydroxymethyl)- (9CI) (CA INDEX NAME)



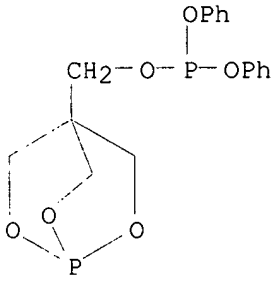
L10 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:465706 CAPLUS
DOCUMENT NUMBER: 79:65706
TITLE: Formation of isomeric diphenylpentaerythritoldiphosphites during the transesterification of triphenyl phosphite with pentaerythritol
AUTHOR(S): Gubaidullin, R. N.; Eganov, V. F.; Arshinova, R. P.; Mukmenev, E. T.
CORPORATE SOURCE: Inst. Org. Fiz. Khim. im. Arbuzova, Kazan, USSR
SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1973), (5), 1116-18
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB P(OPh)3 heated with C(CH2OH)4 at 100-20° in vacuo gave 5 transesterification products, from which the diphenyl pentaerythrityl diphosphite (I) was isolated in over 50% yield. This also formed from bicyclic pentaerythrityl bis-phosphorochloridite and PhOH in the presence of PhNH2 in CHCl3-C6H6. Bicyclic phosphite of 3 functional groups of

pentaerythritol reacted with P(OPh)3 similarly to form II, which proved to be the other major (30%) product of the original reaction above.

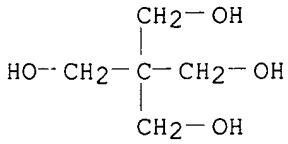
IT 144-35-4P 42022-83-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 144-35-4 CAPLUS
CN 2,4,8,10-Tetraoxa-3,9-diphosphaspiro[5.5]undecane, 3,9-diphenoxy- (9CI) (CA INDEX NAME)



RN 42022-83-3 CAPLUS
CN Phosphorous acid, diphenyl 2,6,7-trioxa-1-phosphabicyclo[2.2.2]oct-4-ylmethyl ester (9CI) (CA INDEX NAME)



IT 115-77-5, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(transesterification of triphenyl phosphite by)
RN 115-77-5 CAPLUS
CN 1,3-Propanediol, 2,2-bis(hydroxymethyl)- (9CI) (CA INDEX NAME)



=> file casreact

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.36	522.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.00	-3.00

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* CASREACT now has more than 10 million reactions
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This file contains CAS Registry Numbers for easy and accurate substance identification.

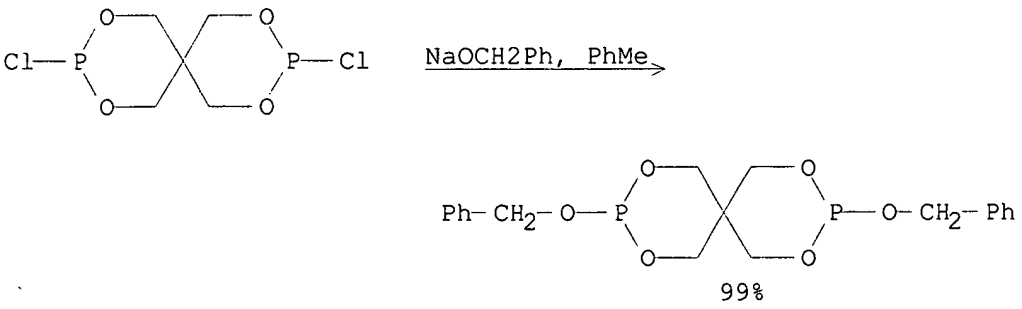
```
=> s l6
L11          40 L6

=> s l3 and l6 and l9
             6 L3
            40 L6
           275 L9
L12          0 L3 AND L6 AND L9

=> d 1-40 l11
```

L11 ANSWER 1 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

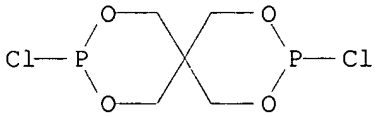
RX(2) OF 9

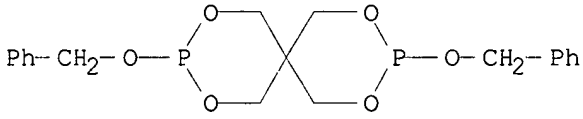


REF: Jpn. Kokai Tokkyo Koho, 2004149443, 27 May 2004
NOTE: alternative prepn. shown
CON: STAGE(1) room temperature -> 5 deg C; 2 hours, 5 deg C; 30 minutes, 5 deg C -> room temperature; 1 hour, room temperature

L11 ANSWER 2 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(2) OF 3

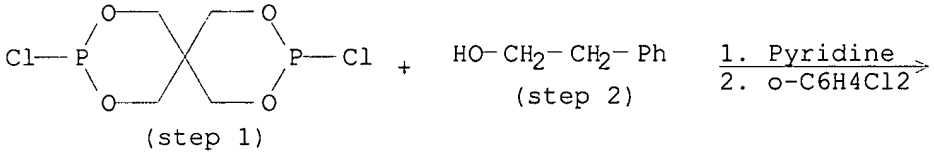


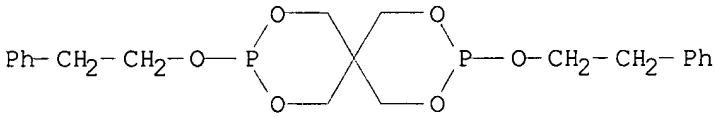


REF: Jpn. Kokai Tokkyo Koho, 2004099500, 02 Apr 2004
NOTE: alternative prepn. shown
CON: STAGE(1) 15 deg C; 30 minutes, 20 deg C

L11 ANSWER 3 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(2) OF 6

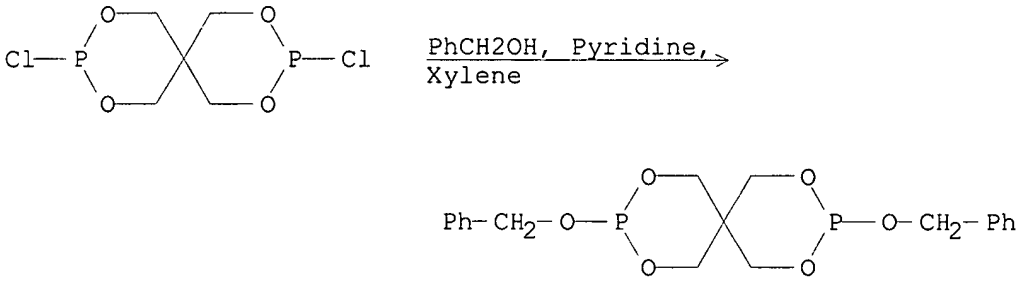




REF: Jpn. Kokai Tokkyo Koho, 2004083538, 18 Mar 2004
CON: STAGE(1) room temperature; room temperature -> 5 deg C
STAGE(2) 1 hour, 5 deg C; 20 minutes, room temperature

L11 ANSWER 4 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

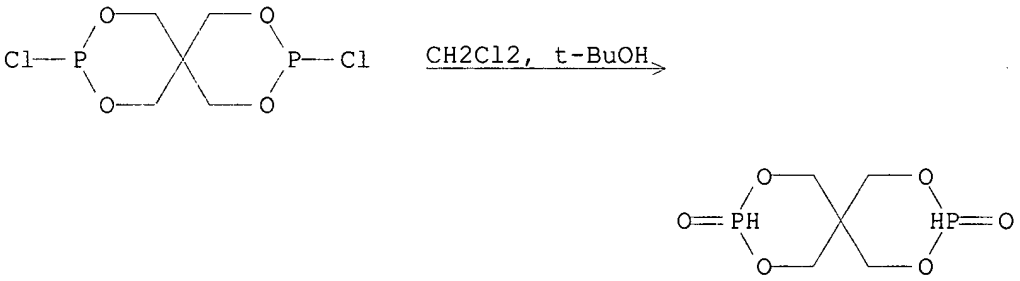
RX(2) OF 3



REF: Jpn. Kokai Tokkyo Koho, 2004083537, 18 Mar 2004
CON: STAGE(1) room temperature -> 5 deg C; 60 minutes; 20 minutes, room temperature

L11 ANSWER 5 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

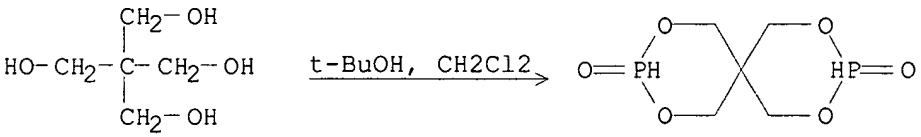
RX(2) OF 10



REF: Jpn. Kokai Tokkyo Koho, 2004035481, 05 Feb 2004
CON: STAGE(1) <10 deg C; 1 hour

L11 ANSWER 6 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

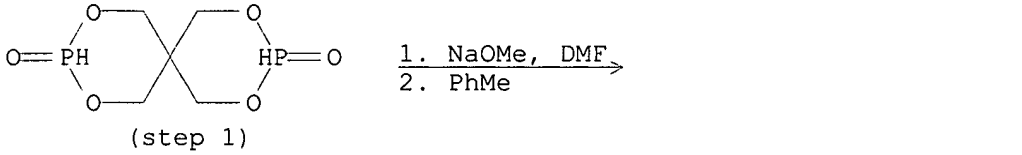
RX(2) OF 2



REF: Jpn. Kokai Tokkyo Koho, 2004035472, 05 Feb 2004
CON: STAGE(1) room temperature -> 5 deg C; 1 hour, 5 deg C; 2 hours, 5 deg C

L11 ANSWER 7 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 1



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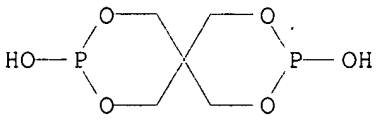
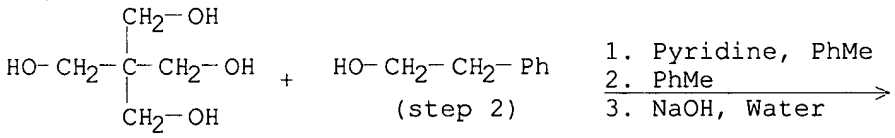


2 Na

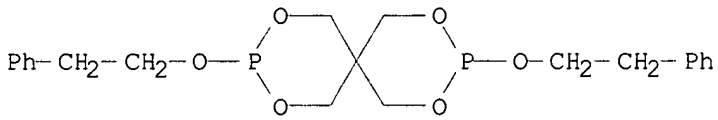
REF: Jpn. Kokai Tokkyo Koho, 2004035471, 05 Feb 2004
CON: STAGE(1) 5 minutes, room temperature; 1.5 hours, 5 deg C

L11 ANSWER 8 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 1



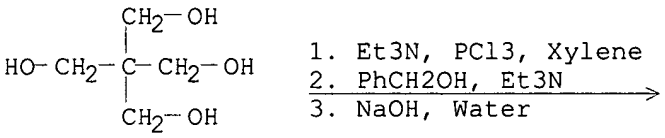
(step 1) (step 2)



REF: Jpn. Kokai Tokkyo Koho, 2004035467, 05 Feb 2004
CON: STAGE(1) 30 minutes, 120 deg C; 1 hour; 30 minutes, 60 deg C
STAGE(2) 40 minutes; 30 minutes, 20 deg C

L11 ANSWER 9 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 1



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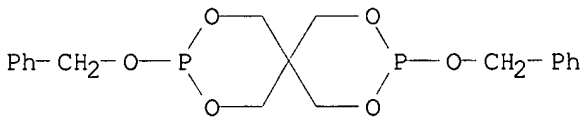
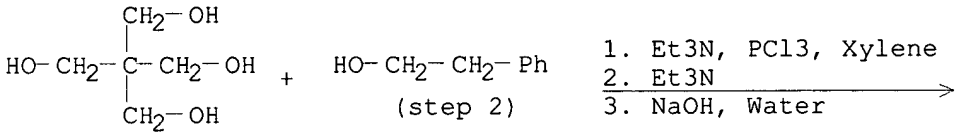


95%

REF: Jpn. Kokai Tokkyo Koho, 2004035465, 05 Feb 2004
NOTE: alternative prepn. shown
CON: STAGE(1) 30 minutes, room temperature;
room temperature -> 60 deg C
STAGE(2) 1 hour, 15 deg C; 30 minutes, 20 deg C

L11 ANSWER 10 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 1



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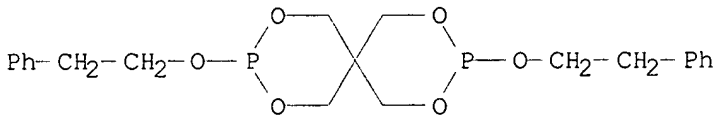
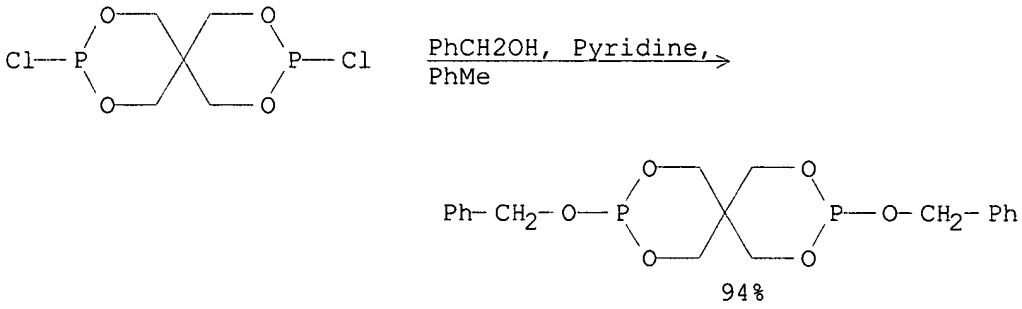


95%

REF: Jpn. Kokai Tokkyo Koho, 2004035468, 05 Feb 2004
NOTE: alternative prepn. shown
CON: STAGE(1) 30 minutes, room temperature;
room temperature -> 60 deg C
STAGE(2) 1 hour, 15 deg C; 30 minutes, 20 deg C

L11 ANSWER 11 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(2) OF 4

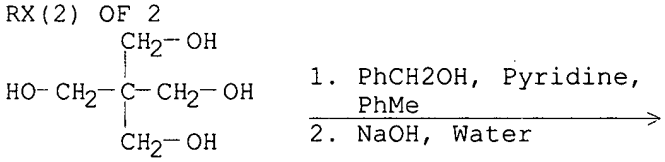


94%

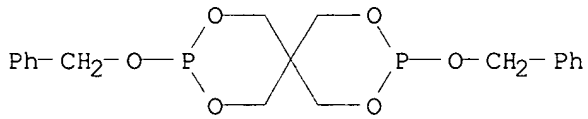
REF: Jpn. Kokai Tokkyo Koho, 2004018406, 22 Jan 2004
CON: 30 minutes, 20 deg C

L11 ANSWER 12 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(2) OF 2



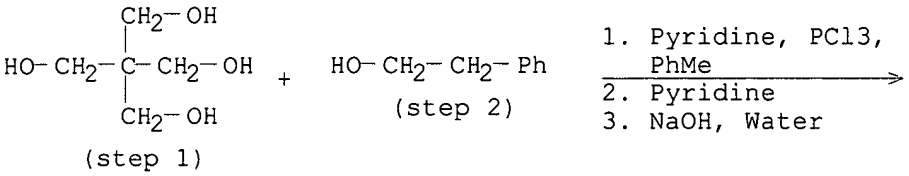
(step 1)

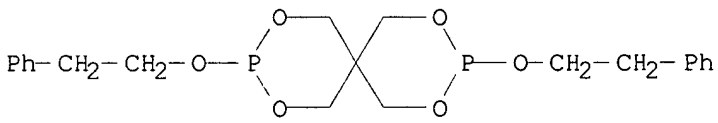


REF: Jpn. Kokai Tokkyo Koho, 2004018388, 22 Jan 2004
CON: STAGE(1) room temperature -> 120 deg C; 30 minutes, 20 deg C;
30 minutes

L11 ANSWER 13 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(2) OF 2

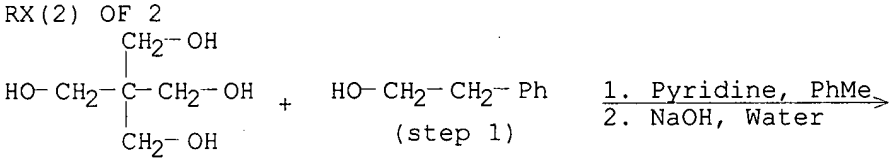


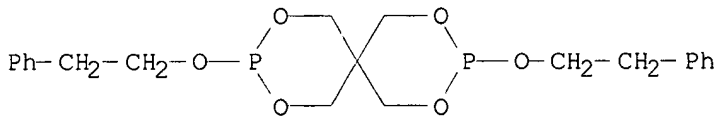


REF: Jpn. Kokai Tokkyo Koho, 2004018410, 22 Jan 2004
NOTE: alternative prepn. shown
CON: STAGE(1) 20 minutes, room temperature; 1 hour, room temperature; room temperature -> 80 deg C; 1 hour, 80 deg C
STAGE(2) 50 minutes, room temperature; 30 minutes, room temperature

L11 ANSWER 14 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(2) OF 2

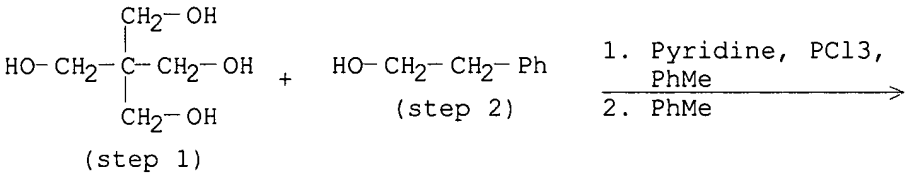


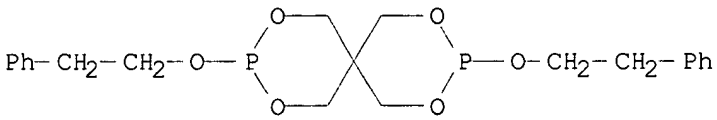


REF: Jpn. Kokai Tokkyo Koho, 2004018405, 22 Jan 2004
CON: STAGE(1) room temperature -> 120 deg C; 30 minutes, 20 deg C; 30 minutes

L11 ANSWER 15 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 3

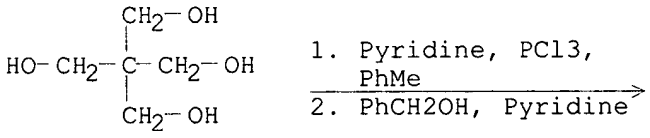


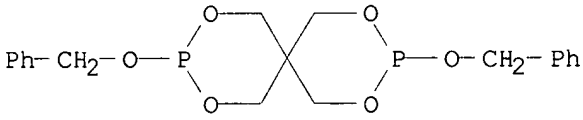


REF: Jpn. Kokai Tokkyo Koho, 2004018387, 22 Jan 2004
CON: STAGE(1) 1 hour, room temperature; room temperature -> 60 deg C; 30 minutes, 60 deg C; 60 deg C -> room temperature
STAGE(2) 20 deg C; 30 minutes, 20 deg C

L11 ANSWER 16 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 3

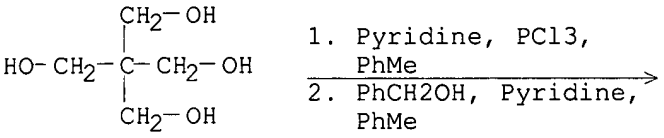




REF: Jpn. Kokai Tokkyo Koho, 2004018409, 22 Jan 2004
NOTE: alternative prepn. shown
CON: STAGE(1) 15 minutes, room temperature; 1 hour, room temperature; room temperature -> 80 deg C; 1 hour, 80 deg C
STAGE(2) 30 minutes, 15 deg C; 30 minutes, 20 deg C

L11 ANSWER 17 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(2) OF 2



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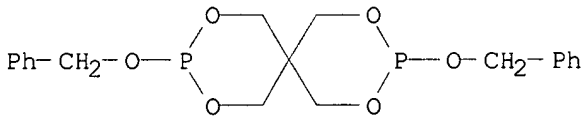
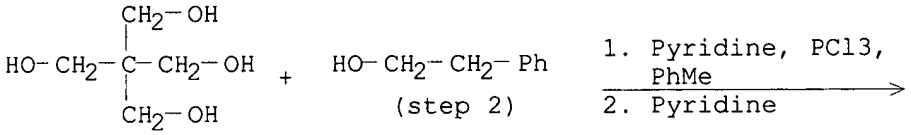


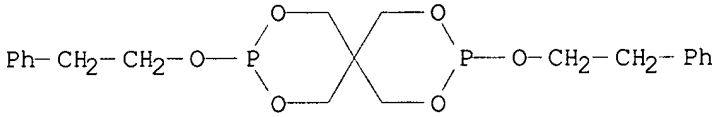
REF: Jpn. Kokai Tokkyo Koho, 2004018408, 22 Jan 2004
NOTE: alternative prepn. shown
CON: STAGE(1) 15 minutes, room temperature; 1 hour, room temperature; room temperature -> 60 deg C; 20 minutes, 60 deg C
STAGE(2) 30 minutes, 5 deg C; 30 minutes, 20 deg C

L11 ANSWER 18 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 2



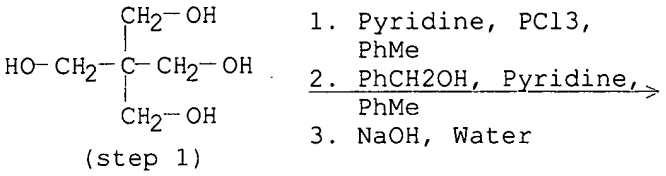
(step 1)



REF: Jpn. Kokai Tokkyo Koho, 2004018407, 22 Jan 2004
NOTE: alternative prepn. shown
CON: STAGE(1) 15 minutes, room temperature; 1 hour, room temperature; room temperature -> 80 deg C; 1 hour, 80 deg C
STAGE(2) 30 minutes, 15 deg C; 30 minutes, 20 deg C

L11 ANSWER 19 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 3



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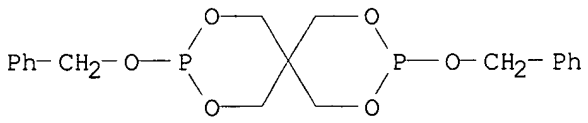
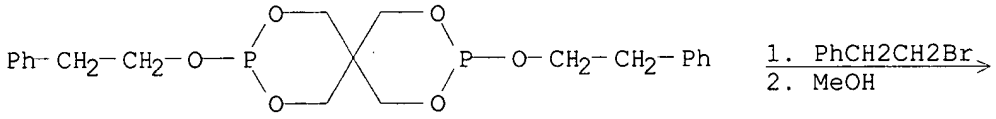


REF: Jpn. Kokai Tokkyo Koho, 2004018386, 22 Jan 2004
CON: STAGE(1) 1 hour, room temperature; room temperature -> 60 deg C; 30 minutes, 60 deg C
STAGE(2) 20 deg C; 30 minutes, 20 deg C

L11 ANSWER 20 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 1



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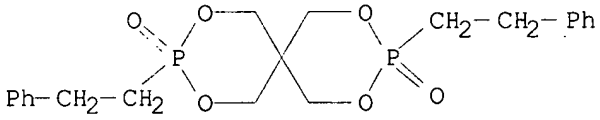
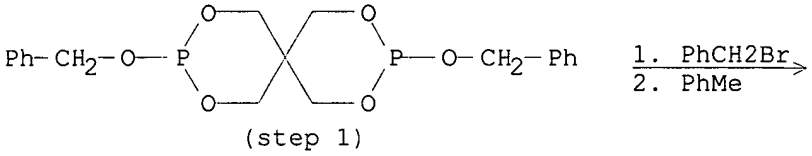


87%

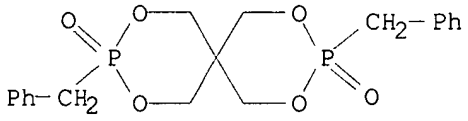
REF: Jpn. Kokai Tokkyo Koho, 2004018385, 22 Jan 2004
NOTE: alternative prepn. shown
CON: STAGE(1) 8 hours, 180 deg C; 180 deg C -> room temperature
STAGE(2) 1 hour, reflux

L11 ANSWER 21 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 3



(step 1)

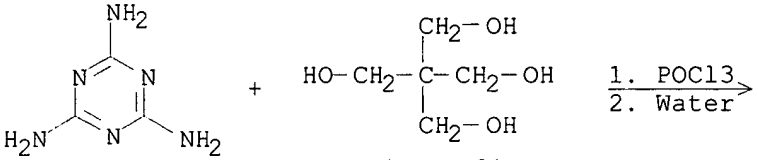


82%

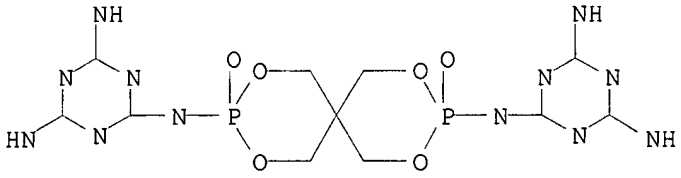
REF: Jpn. Kokai Tokkyo Koho, 2004018384, 22 Jan 2004
NOTE: alternative prepn. shown
CON: STAGE(1) 90 minutes, 150 deg C; 150 deg C -> room temperature
STAGE(2) 30 minutes, room temperature

L11 ANSWER 22 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 1



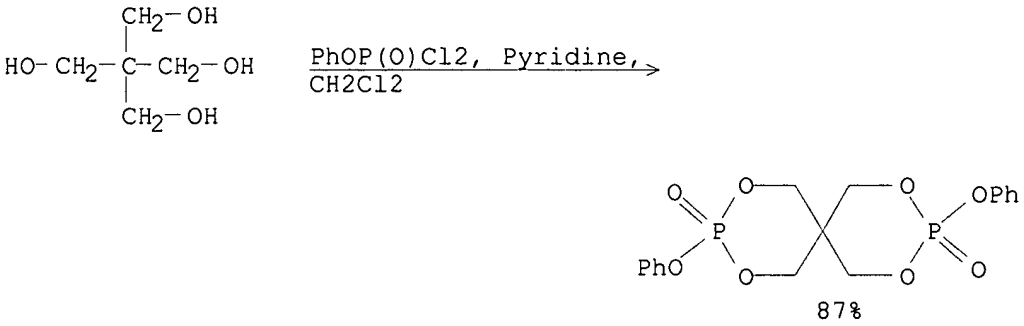
(step 2) (step 1)



REF: PCT Int. Appl., 2003006472, 23 Jan 2003
CON: STAGE(1) room temperature; room temperature -> 105 deg C;
2 hours, 105 deg C; 105 deg C -> room temperature
STAGE(2) room temperature -> 100 deg C; 3 hours, 100 deg C

L11 ANSWER 23 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

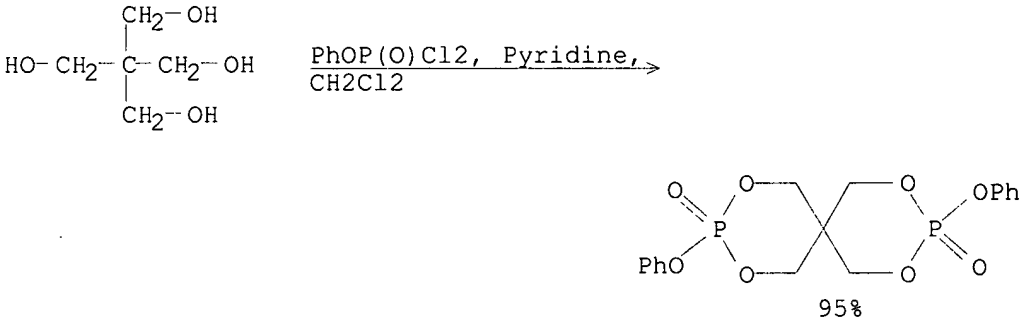
RX(1) OF 2



REF: Jpn. Kokai Tokkyo Koho, 2002097195, 02 Apr 2002

L11 ANSWER 24 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

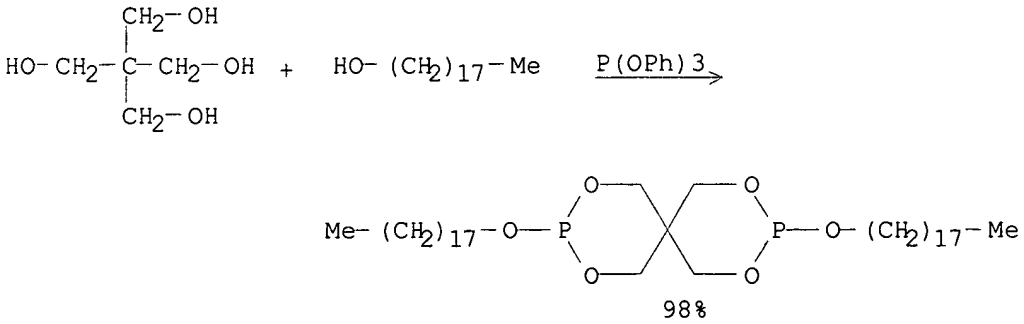
RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 2002053587, 19 Feb 2002

L11 ANSWER 25 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 1



REF: Huaxue Shijie, 42(3), 144-145, 165; 2001
NOTE: no solvent, organotin as catalyst

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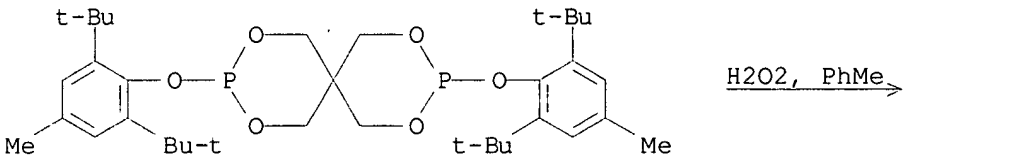
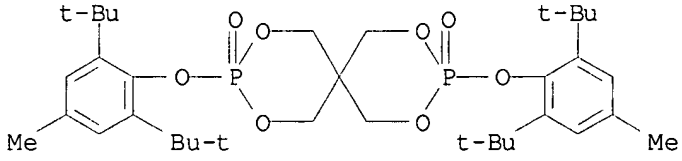
RX(1) OF 1





98%

REF: Jpn. Kokai Tokkyo Koho, 2000128892, 09 May 2000
NOTE: room temp., 2 h

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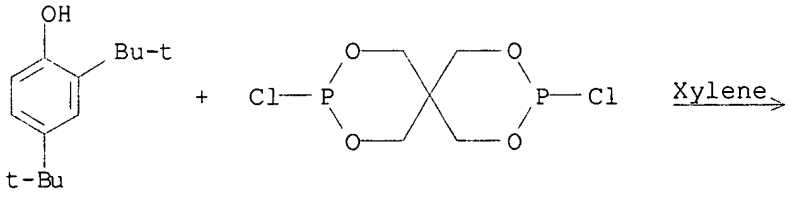
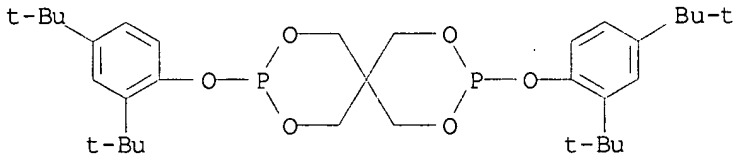
RX(1) OF 1





76%

REF: U.S., 5919966, 06 Jul 1999
NOTE: in vacuo, 60.degree.

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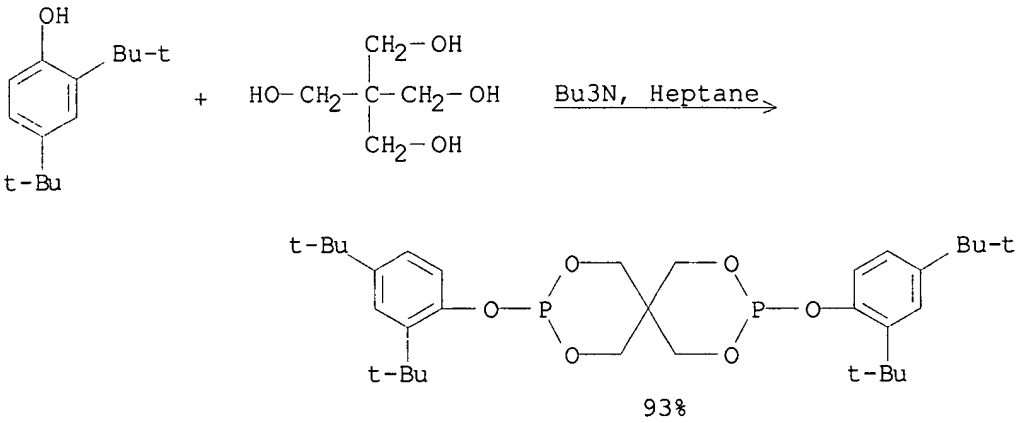
RX(1) OF 1

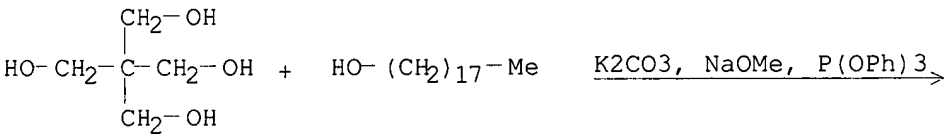


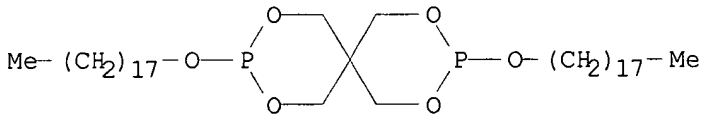
93%

REF: U.S., 5917076, 29 Jun 1999
NOTE: 200 mesh pentaerythritol

L11 ANSWER 29 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 1





98%

REF: Faming Zhuanli Shenqing Gongkai Shuomingshu, 1123284, 29 May 1996
NOTE: 160.degree., 1 h

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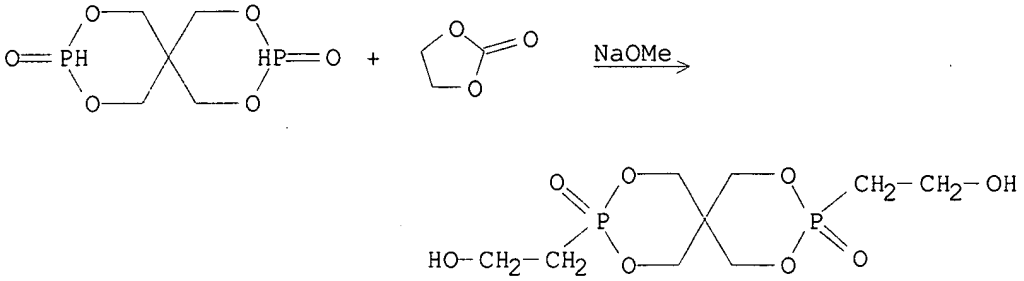
RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 10017585, 20 Jan 1998, Heisei
NOTE: 110-120.degree. for 5 h

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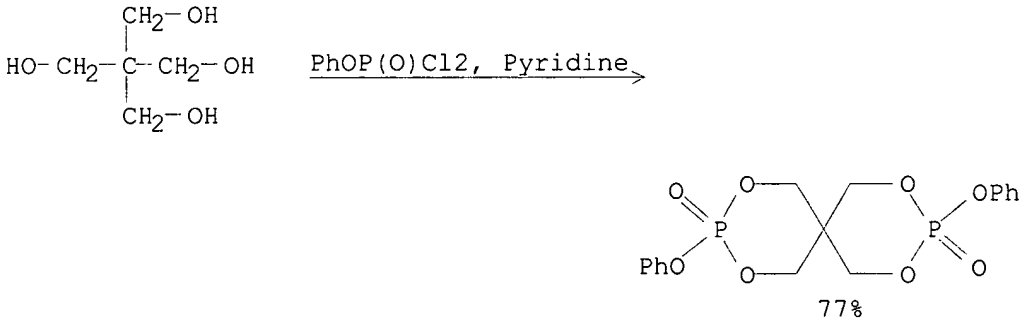
RX(1) OF 1



REF: Jpn. Kokai Tokkyo Koho, 09169789, 30 Jun 1997, Heisei
NOTE: 30 min

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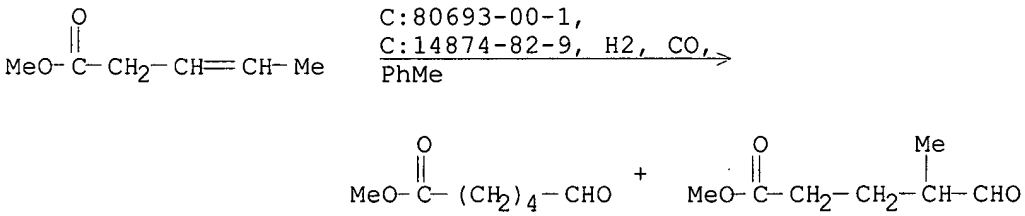
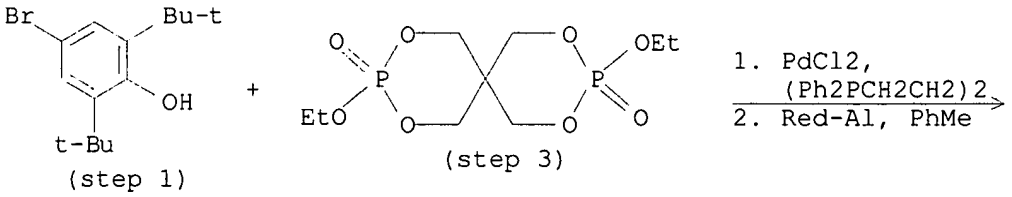
RX(2) OF 4



REF: Eur. Pat. Appl., 712828, 22 May 1996

L11 ANSWER 33 OF 40 CASREACT COPYRIGHT 2006 ACS on STN

RX(8) OF 10



REF: Ger. Offen., 4318013, 01 Dec 1994

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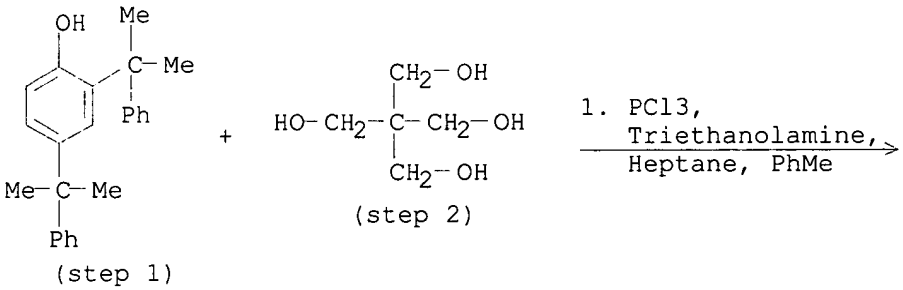
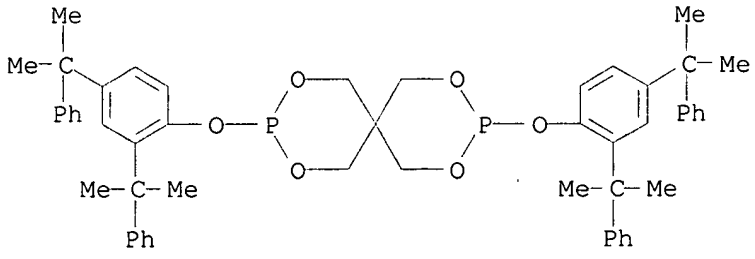
RX(1) OF 1





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REF: PCT Int. Appl., 9417082, 04 Aug 1994

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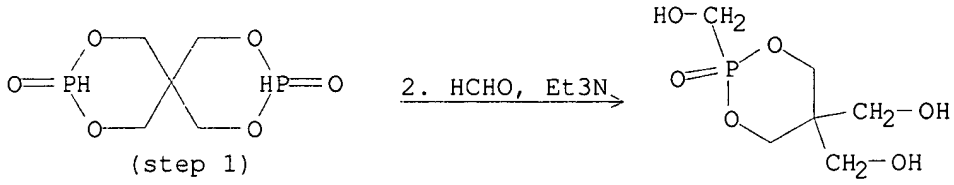
RX(3) OF 5



(step 1)

REF: Ger. Offen., 4221678, 13 Jan 1994
NOTE: paraformaldehyde used

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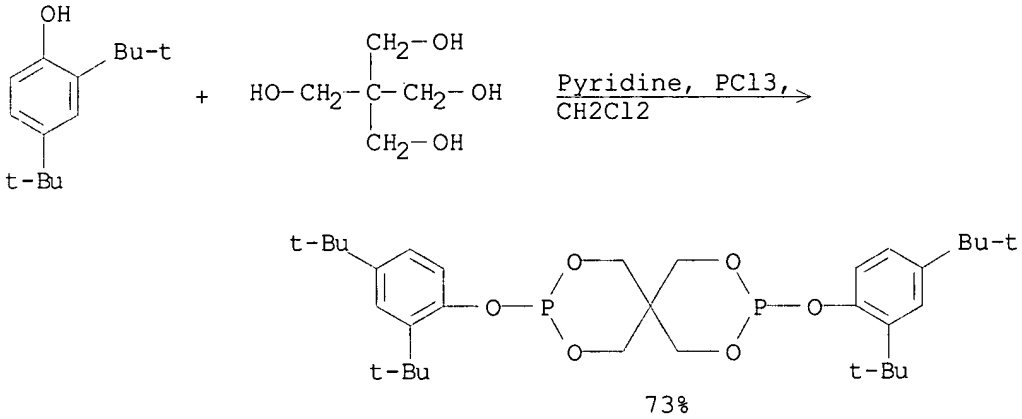
RX(1) OF 1



73%

REF: U.S., 5103035, 07 Apr 1992

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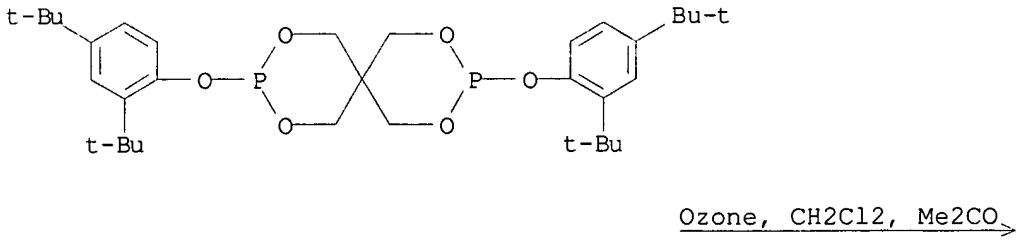
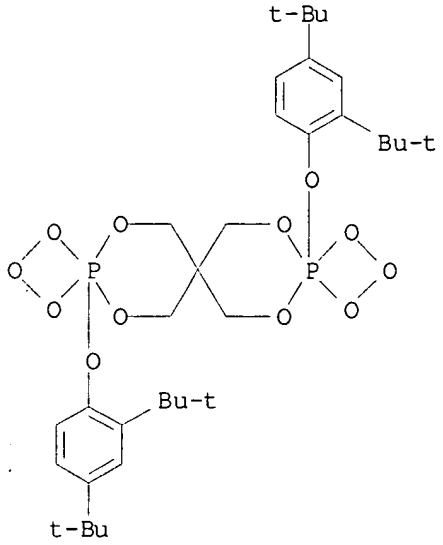
RX(1) OF 5



RX(1) OF 5



REF: Zhurnal Organicheskoi Khimii, 26(3), 623-7; 1990
NOTE: Either or both solvents

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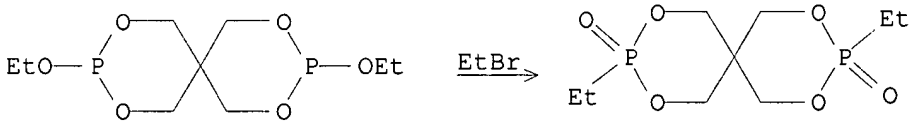
RX(2) OF 5



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REF: Zhurnal Obshchei Khimii, 56(12), 2795-7; 1986

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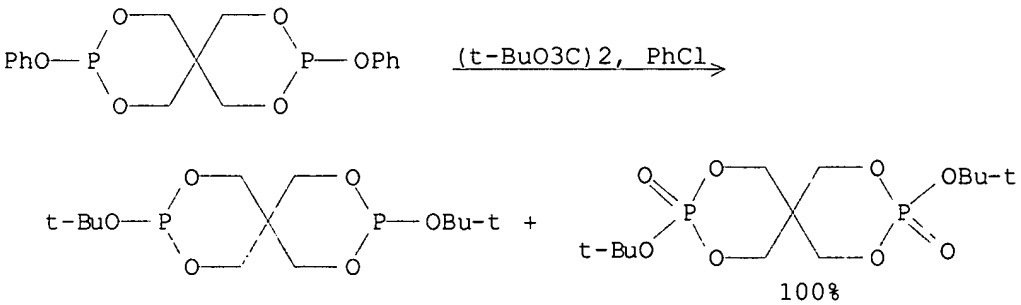
RX(10) OF 38



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REF: Zeitschrift fuer Chemie, 26(10), 360-6; 1986

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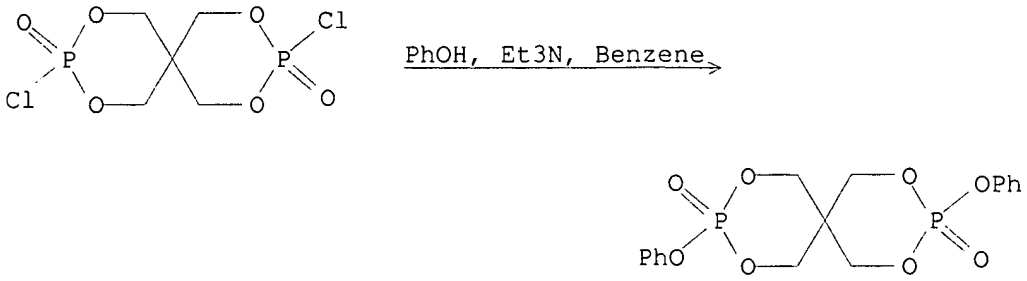
RX(1) OF 8



REF: Magnetic Resonance in Chemistry, 23(2), 122-6; 1985

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	225.80	748.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.00

STN INTERNATIONAL LOGOFF AT 10:05:47 ON 19 SEP 2006